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Washington University in St. Louis, St. Louis, MO 63130. *Generators for vector bundles.*

We prove that on a smooth generic hypersurface  $X \subset \mathbb{P}^{m+1}$  of degree  $d$  and dimension at least 3, a vector bundle with  $r \leq m$  generators must be split if  $m$  is odd. If  $m$  is even, the same is true if  $d \geq 3$ . This is an extension of a theorem of Faltings for vector bundles on projective space. (Received August 28, 2005)